

For achieving elimination of unfairness between ports, reserved output port information transferred between respective modules is input to switch out of the module to vary destination of output. The module and the switch operate in synchronism with the frame for which the connection grant process of a plurality of time slot is performed to vary connection topology so that all connection topology appear. By variation of connection topology, variation combination of adjacent port appear to shuffle preference for the input port which is otherwise held fixed for resolving unfairness relating to reservation chance of the input port.

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